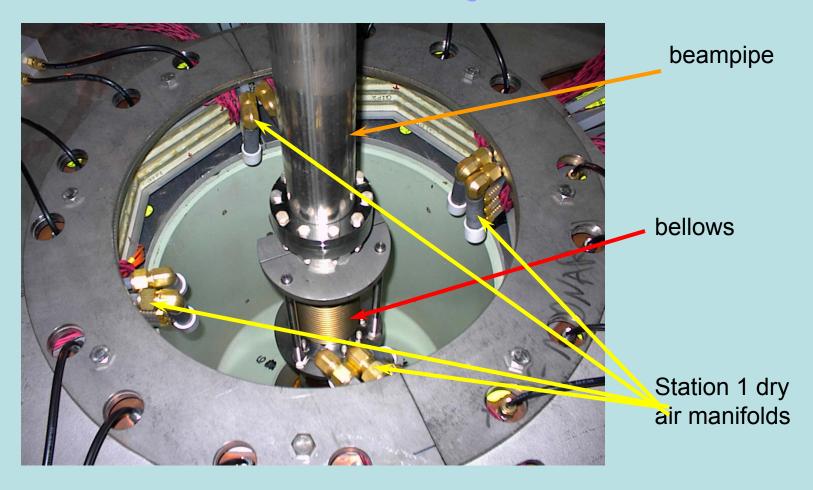
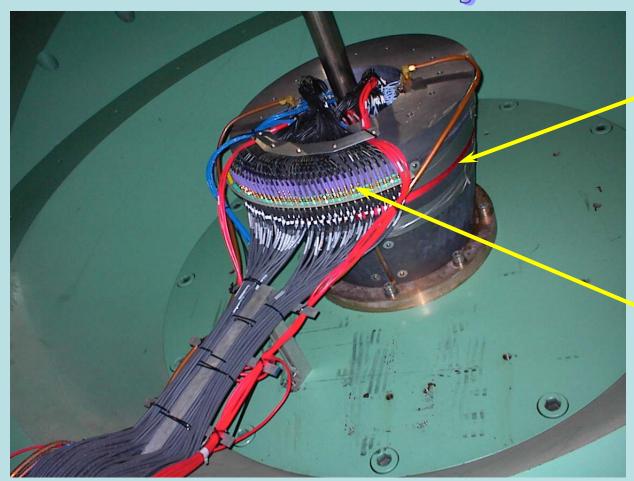
Muon Piston-Cavity Calorimeter (MPC) Mechanical Design And Installation









"Flowerpot"

These cables protrude into the muon piston cavity when the MMS is in the closed (run) position



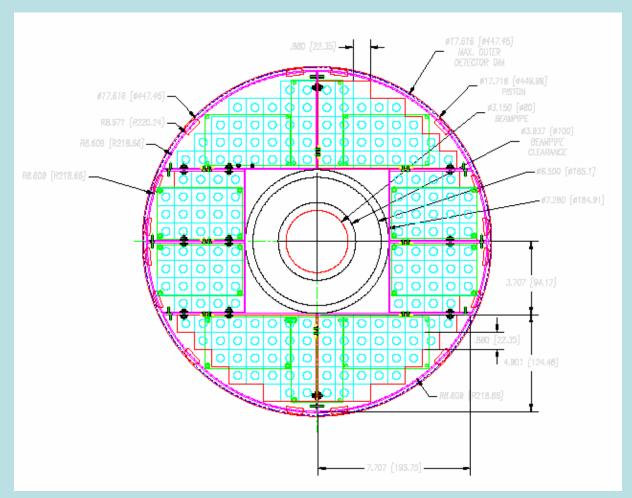


Looking up at Muon piston cavity.

MuTr Station 1



MPC Safety Review MPC



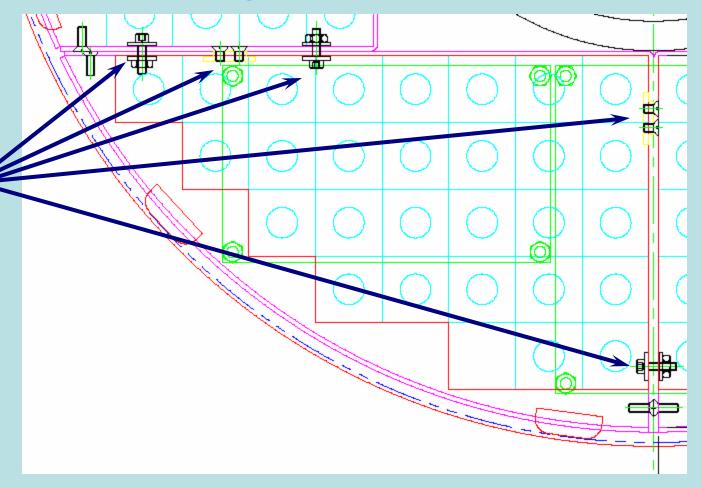
8 modules:

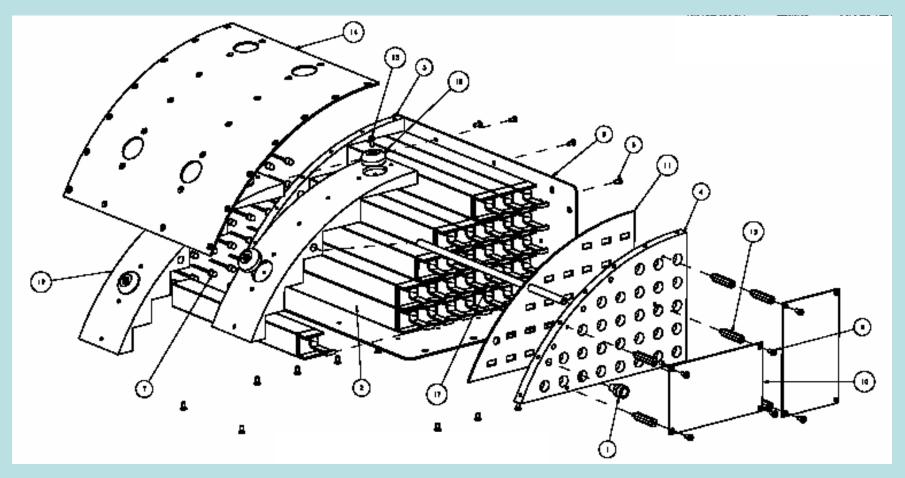
- 4 wedges w/ 29 crystals each
- 4 bricks w/18 crystals each
- 188 crystals total

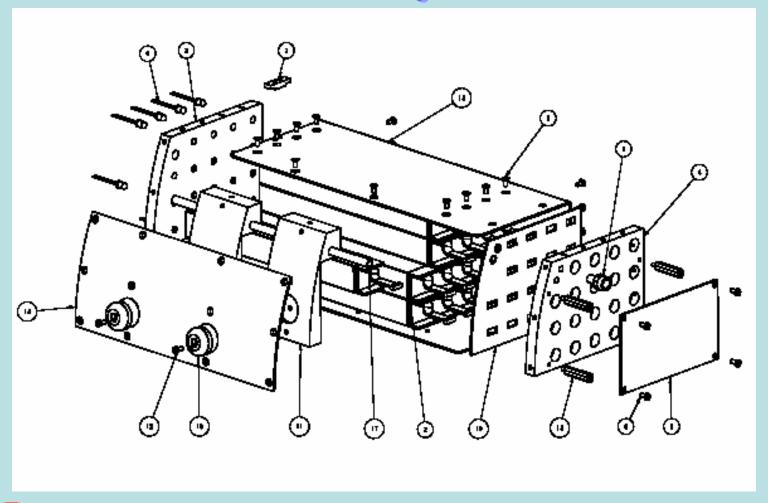


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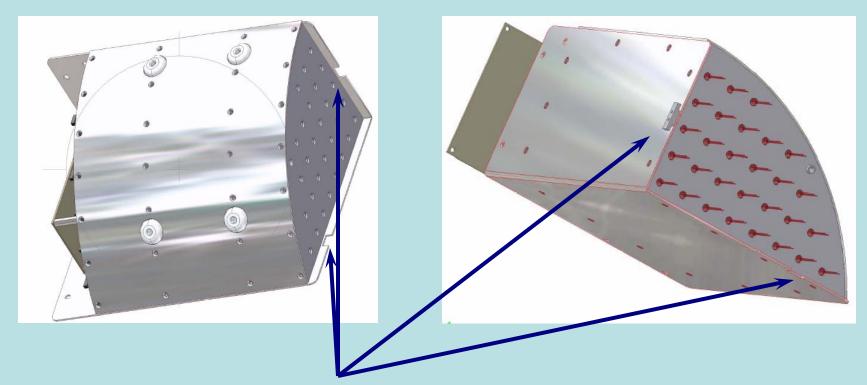
Modules are attached to adjacent modules with tab/slots at rear and screws at front





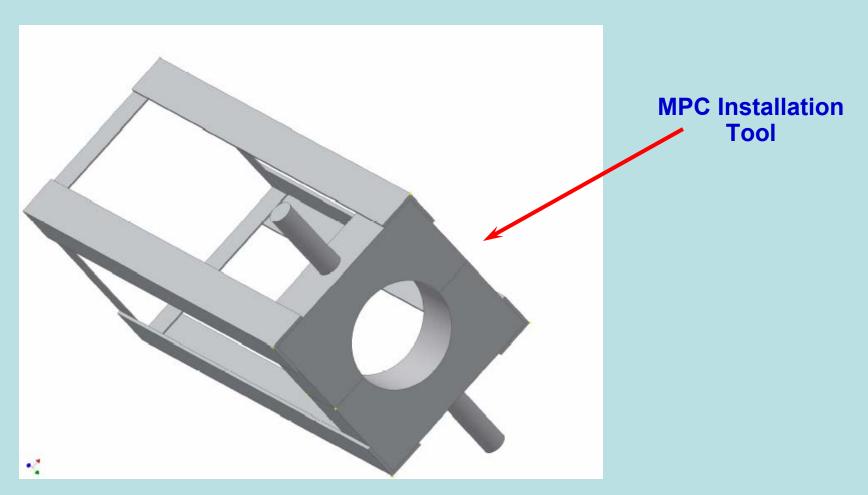


MPG Safety Review Installation



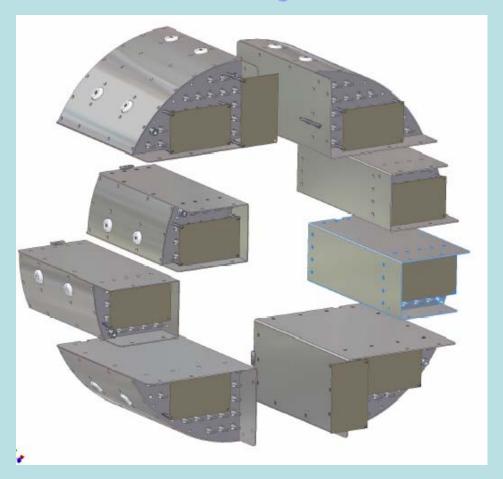
Locking Tabs at rear of modules

MPC Safety Review Installation



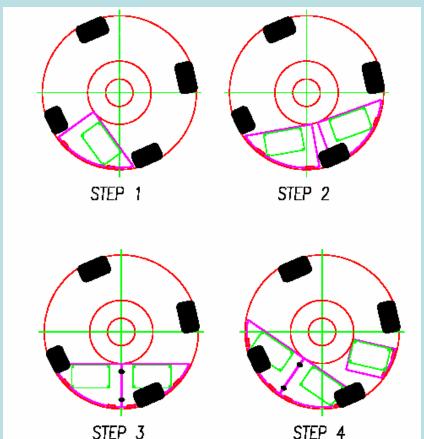
11/4/2005





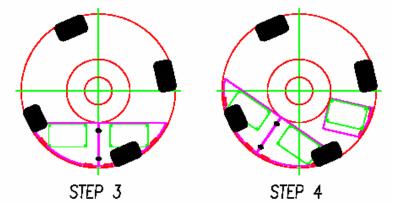
Installation

1. Insert lowerwest wedge module



2. Rotate lowerwest wedge module counter-clockwise, insert lower-east module

3. Rotate lower wedge modules to normal position



11/4/2005

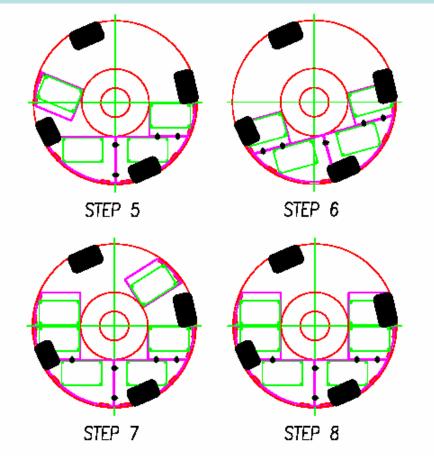
4. Rotate lower wedge modules clockwise, insert below-center west block module



Installation

5. Rotate modules back to normal position. Insert below-center east block module

7. Rotate modules to normal position. **Insert babove**center West block module



11/4/2005

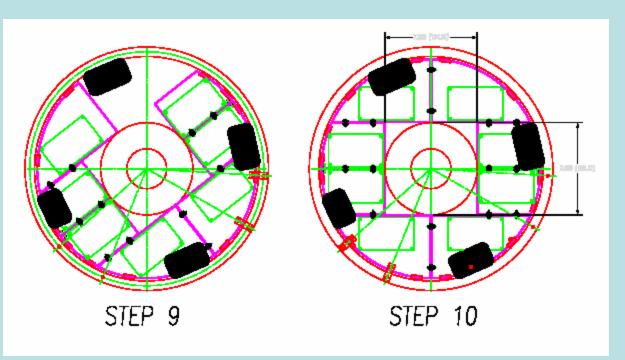
6. Rotate modules counter-clockwise, insert abovecenter east block module

8. Ready for upper wedge modules



MPC Safety Review Installation

9. Rotate modules counterclockwise. Insert upper east wedge

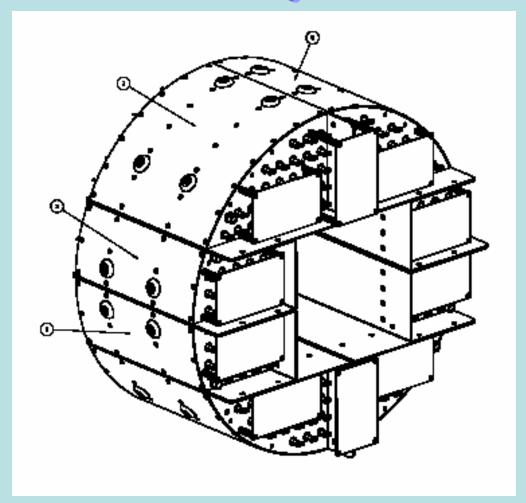


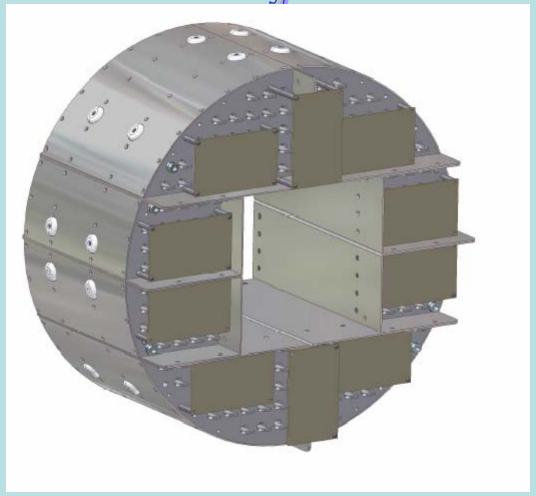
10. Rotate modules clockwise, to normal position. **Insert upper**west wedge module

11. Connect cables and gas lines, push assembly to back wall of cavity align and lock in position

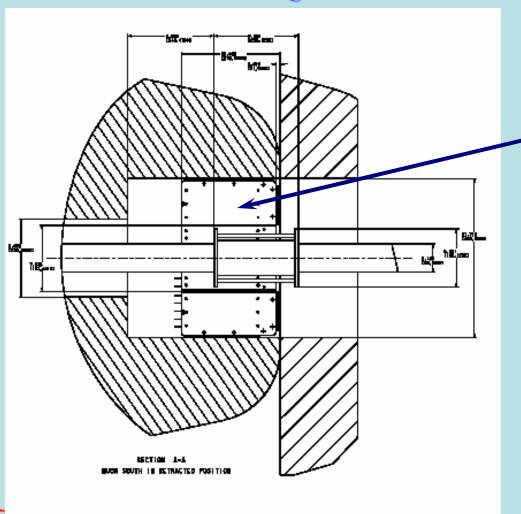
11/4/2005



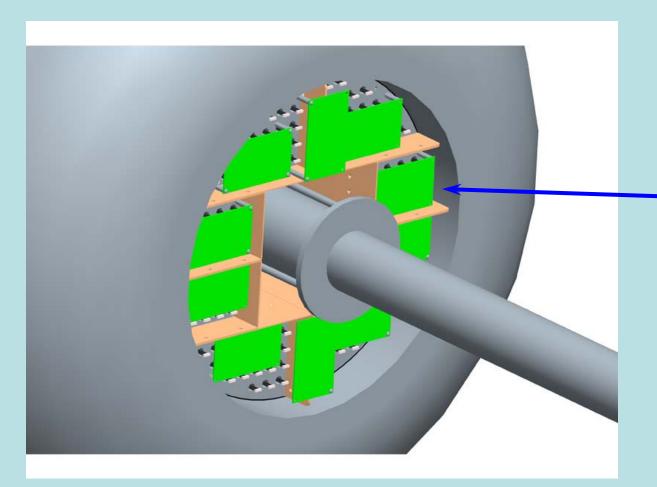








MPC after all modules are installed, before moving back in cavity and before being cabled



MPC after all modules are installed, before moving back in cavity and before being cabled

(MuTr Station 1 omitted for clarity)

